

LAKE: MANHANOCK P (VLMP 21)
 TOWN: PARKMAN
 COUNTY: PISCATAQUIS

MIDAS: 758
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

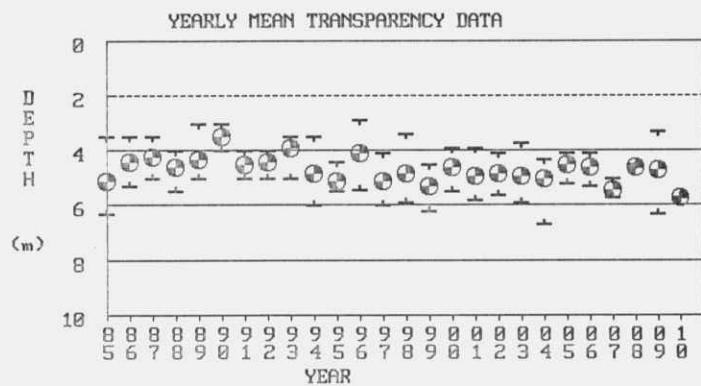
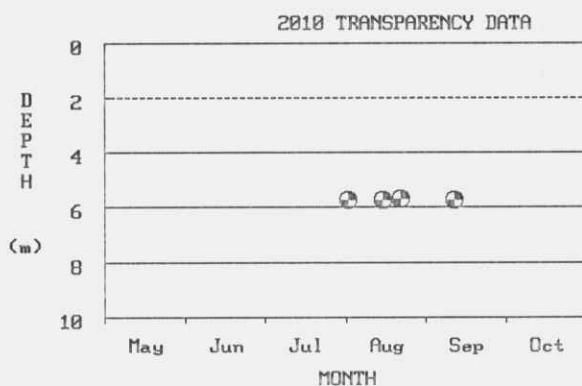
MAX. DEPTH: 11 m. (36 ft.)
 MEAN DEPTH: 2 m. (6 ft.)
 DELORME ATLAS #: 31
 USGS QUAD: GUILFORD
 IFW REGION E: Moosehead Lake (Greenville)
 IFW FISH. MANAGEMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 178.0 ha. (439.8 a.)
 FLUSHING RATE: 9.76 flushes/yr.
 VOLUME: 3546458.0 cu. m. (2877 ac.-ft.)
 DIRECT DRAINAGE AREA: 22.29 sq. km. (8.61 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. MANHANOCK P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR (SPU)	MEAN pH	MEAN ALK (mg/l)	MEAN COND. (/cm)	TOTAL MEANS (ppb)	SECCHI DISK (m.)			CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
						MEAN CORE	MEAN GRAB	MEAN GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.
						(/cm)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1985	35	7.30	21.0	65	8	-	-	17	-	3.5	5.1	6.3	5	-	-
1986	-	-	-	-	-	-	-	-	-	3.5	4.4	5.3	5	-	-
1987	-	-	-	-	-	-	-	-	-	3.5	4.2	5.0	4	-	-
1988	-	-	-	-	-	-	-	-	-	4.0	4.6	5.5	4	-	-
1989	-	-	-	-	-	-	-	-	-	3.0	4.3	5.0	4	-	-
1990	-	-	-	-	-	-	-	-	-	3.0	3.5	4.0	5	-	-
1991	23	7.07	29.0	70	12	-	-	-	-	4.0	4.5	5.0	5	3.4	3.4
1992	-	-	-	-	-	-	-	-	-	4.0	4.4	5.0	5	-	-
1993	-	-	-	-	-	-	-	-	-	3.5	3.9	5.0	3	-	-
1994	-	-	-	-	-	-	-	-	-	3.5	4.8	6.0	5	-	-
1995	-	-	-	-	-	-	-	-	-	4.4	5.1	5.5	5	-	-
1996	50	-	20.5	61	23	-	-	14	-	2.9	4.1	5.4	6	3.9	3.9
1997	-	-	-	-	-	-	-	-	-	4.1	5.1	6.0	5	-	-
1998	15	-	-	-	-	-	-	-	-	3.4	4.8	5.9	6	-	-
1999	-	-	-	-	-	-	-	-	-	4.5	5.3	6.2	5	-	-

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YEAR	MEAN	MEAN	MEAN	MEAN	COND.				TOTAL PHOS.	MEANS (ppb)	SECCHI DISK (m.)			CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES					
	COLOR	pH	ALK	(mg/l)	(μ s/cm)	EPI	SURF	BOT.	GRAB	GRAB	GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
	(SPU)																					
2000	-	-	-	-	-	-	-	-	-	-	-	3.9	4.6	5.5	6	-	-	-	-	-	53	-
2001	22	7.61	19.8	63	7	-	23	-	3.9	4.9	5.8	6	4.1	4.1	4.1	-	-	-	-	-	49	-
2002	-	-	-	-	-	-	-	-	4.1	4.8	5.6	4	-	-	-	-	-	-	-	-	49	-
2003	-	-	-	-	-	-	-	-	3.7	4.9	5.9	5	-	-	-	-	-	-	-	-	48	-
2004	-	-	-	-	-	-	-	-	4.3	5.0	6.7	5	-	-	-	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	4.1	4.5	5.2	4	-	-	-	-	-	-	-	-	-	-
2006	33	7.67	27.4	70	9	-	17	-	4.1	4.6	5.3	3	4.5	4.5	4.5	-	-	-	-	-	-	-
2007	-	-	-	-	-	-	-	-	5.0	5.4	5.7	3	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	4.5	4.6	4.6	2	-	-	-	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	3.3	4.7	6.3	5	-	-	-	-	-	-	-	-	52	-
2010	-	-	-	-	-	-	-	-	5.7	5.7	5.7	3	-	-	-	-	-	-	-	-	-	-
SUMMARY:	30	7.34	23.5	66	12	-	18	-	2.9	4.7	6.7	26	3.4	4.0	4.5	-	-	-	-	-	52	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE				
	08/21/85	08/21/91	08/13/96	08/17/01	08/10/06
m	°C	ppm	°C	ppm	°C ppm
0.0	23.1	8.2	20.3	8.2	22.6 7.6
1.0	23.0	8.2	20.5	8.0	22.6 7.6
2.0	23.0	8.1	20.5	7.9	22.0 7.2
3.0	22.8	8.1	20.5	8.0	22.0 4.2
4.0	22.0	8.1	20.5	7.9	19.1 1.8
5.0	22.0	7.9	20.3	7.8	18.6 1.8
6.0	19.0	1.7	20.2	7.8	16.2 0.2
7.0	16.0	0.5	20.0	7.4	14.0 0.2
8.0	13.8	0.4	19.0	6.1	11.1 0.2
9.0	12.5	0.3	12.0	0.3	11.0 0.2
10.0	12.0	0.3	11.0	0.3	- -
11.0	-	-	10.5	0.2	- -

WATER QUALITY SUMMARY

MANHANOCK POND, PARKMAN

Midas: 0758, Station: 01 - Primary

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Manhanock Pond have been collected since 1985. During this period, 5 years of basic chemical information was collected, in addition to Secchi Disk Transparency (SDT). In summary, the water quality of Manhanock Pond is considered to be about average, based on measures of SDT, total phosphorus (TP) and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Manhanock Pond is low to moderate.

Water Quality Measures: Manhanock Pond is a colored lake (average color 30 SPU) with an average SDT of 4.6m (15.2ft). The range of water column TP for Manhanock Pond is 8-23 parts per billion (ppb) with an average of 12 ppb, while Chla ranges from 3.4-4.5 ppb with an average of 4.0 ppb. Recent dissolved oxygen (DO) profiles show moderate DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is moderate.

The SDT readings from 1985- 2006 indicate stable water quality, but this could change with increased development pressure and changes in regional weather patterns.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: manh0758, Revised: 12/06, By: jp